

**LOCKHEED MARTIN**



January 15, 2002

Mr. Gerard J. Thibeault  
Executive Officer  
California Regional Water Quality Control Board  
Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, California 92501-3339

Dear Mr. Thibeault:

This report is submitted in accordance with the approved August 15, 1997, Workplan and Schedule prepared under Cleanup and Abatement Order No. 97-58. It covers activity from October through December 2001.

### **Perchlorate Sampling**

Monthly sampling for perchlorate in selected production wells has been ongoing. The results have been submitted previously to the Regional Water Quality Control Board (Production Well Sampling Reports, and the Water Supply Contingency Plan Report).

### **Modeling**

Attended a meeting of Newark Plume modeling group. LMC is participating in information sharing with this group for the purpose of information exchange.

Revisions to LMC's Bunker Hill Basin ground water flow model are being completed using the most recent water quality data. This model is used in predicting future plume migration patterns.

### **Perchlorate Treatment Technology Update**

Preliminary investigations of the potential use of biological treatment methods to remove perchlorate from potable water sources have been initiated with a company called Envirogen. The California DHS Technology Division has indicated they would be receptive to the application of this type of treatment methodology. A work plan for pilot testing this process at a Gage well is being prepared for review by DHS and City of Riverside.

### **City of Riverside**

The North Orange Pipeline Project has been awarded by the City of Riverside, which will support WSCP implementation.

### **City of Loma Linda**

We are finalizing the well configurations with the City of Loma Linda for Mountain View-4 and -5 and Richardson-4, in order to comply with agreements regarding WSCP. These configuration changes will give the City the flexibility within their system to blend water that meets MCLs.

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LMC is evaluating alternative plans to improve the blending capabilities of the City's water supply system. The selected blending plan will be submitted to DHS for approval.

#### **Victoria Farms**

Lockheed Martin Corporation has submitted a legal agreement to Victoria Farms for permanent water supply connection to San Bernardino.

#### **City of Redlands**

A written proposal has been submitted to the city for a test using ion exchange technology for perchlorate treatment that would enable the Texas Street treatment plant to be reactivated during high demand periods. This proposal is currently under review by the city.

#### **Loma Linda University**

No activity to report during this period.

#### **Perchlorate Study Group**

The PSG continues to maintain a dialogue with OEHHA and is providing technical data and comments to OEHHA in support of their efforts in establishing a new perchlorate standard.

#### **Staffing**

No activity to report this period.

The next quarterly update will be submitted on or about April 15, 2002. If you have any questions, please contact me at (818) 847-0197.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gene Matsushita".

Gene Matsushita  
Technical Projects Manager

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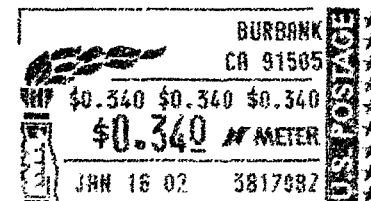
C: Kalyanpur Baliga, DOHS  
Jon Satrom, USAF, North Air Force Base  
Wesley Danskin, US Geological Survey  
Dodie Farmer, Victoria Farms  
Gary Snyder, COLL  
Chris Bahnsen, San Bernardino Valley Water Conservation District  
Doug Headrick, City of Redlands  
Ross Lewis, Gage Canal Company  
Kevin Mayer, US EPA  
Steve Mains, Western Municipal Water District  
Morris Matson, LLU  
Eugene McMeans, Riverside Highland Water Company  
Zahra Panahi, City of Riverside  
Bob Reiter, San Bernardino Valley Municipal Water District  
Toby Roy, DOHS (San Diego)  
Alain Sharp, Earth Technology Corporation  
Joseph Stejskal, City of San Bernardino  
Dieter Wirtzfeld, City of Riverside

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